



# SEA-BIRD ELECTRONICS, INC.

13431 NE 20th St. Bellevue, Washington 98005 USA

Phone: (425) 643-9866 Fax: (425) 643-9954 [www.seabird.com](http://www.seabird.com)

**Service**

**Report**

**RMA Number**

**77793**

## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 03P2732

**Model Number** SBE 03Plus

## Services Requested:

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature sensor.

## Special Notes:

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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 042315

**Model Number** SBE 04C

## Services Requested:

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the conductivity sensor.

## Special Notes:

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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 050171

**Model Number** SBE 05-01

## Services Requested:

1. Evaluate/Repair Instrumentation.

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.

## Special Notes:



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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 050731

**Model Number** SBE 05M

## Services Requested:

1. Evaluate/Repair Instrumentation.

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.

## Special Notes:



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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 051313

**Model Number** SBE 05M

## Services Requested:

1. Evaluate/Repair Instrumentation.

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.

## Special Notes:



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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 09P20080-0565

**Model Number** SBE 09Plus

## Services Requested:

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

## Problems Found:

1. The SBE 43 DO interface cable was found to longer have a water tight seal.

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Installed NEW SBE 43 interface cable.
4. Replaced anode(s).
5. Performed complete system check and full diagnostic evaluation.

## Special Notes:



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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 130190

**Model Number** SBE 13-01

## Services Requested:

1. Evaluate/Repair Instrumentation.

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.

## Special Notes:



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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 16P49864-6098

**Model Number** SBE 16Plus

## Services Requested:

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed internal inspection and O-ring replacement.
3. Performed hydrostatic pressure test.
4. Calibrated the pressure sensor.
5. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:



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**Service**

**Report**

**RMA Number**

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## Customer Information:

<b>Company</b>	NOAA/Great Lakes Environmental Research Laboratory	<b>Date</b>	3/3/2014
<b>Contact</b>	Steve Constant		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	192306-0207
<b>Model Number</b>	SBE 19

## Services Requested:

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed internal inspection and O-ring replacement.
3. Performed hydrostatic pressure test.
4. Calibrated the pressure sensor.
5. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 19P51607-6337

**Model Number** SBE 19Plus

## Services Requested:

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

## Problems Found:

1. The conductivity cell was found to require cleaning and re-platinization.

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
4. Cleaned and replatinized the conductivity cell.
5. Performed "Final" calibration of the temperature & conductivity sensors.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:



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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 19P57237-6619

**Model Number** SBE 19Plus

## Services Requested:

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

## Problems Found:

## Services Performed:

0. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
1. Performed initial diagnostic evaluation.
2. Upgraded firmware to most current revision (see special notes).\*
3. Calibrated the pressure sensor.
4. Performed complete system check and full diagnostic evaluation.

## Special Notes:

\* Version 2.5.2.



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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 430817

**Model Number** SBF 43

## Services Requested:

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

## Problems Found:

1. The membrane was ballooned.

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Replaced the lid and membrane assembly (0.5 mil).
3. Replaced the electrolyte with new fluid.
4. Performed "Final" calibration of the oxygen sensor.
5. Performed full diagnostic evaluation.

## Special Notes:



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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 431189

**Model Number** SBE 43

## Services Requested:

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the oxygen sensor.
3. Performed full diagnostic evaluation.

## Special Notes:



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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 432360

**Model Number** SBE 43

## Services Requested:

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the oxygen sensor.
3. Performed full diagnostic evaluation.

## Special Notes:



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## Customer Information:

**Company** NOAA/Great Lakes Environmental Research Laboratory **Date** 3/3/2014

**Contact** Steve Constant

**PO Number** TBD

**Serial Number** 432361

**Model Number** SBE 43

## Services Requested:

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

## Problems Found:

1. The membrane was dirty.

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the oxygen sensor.
3. Replaced the lid and membrane assembly (0.5 mil). \*
4. Replaced the electrolyte with new fluid. \*
5. Performed hydrostatic pressure test.
6. Performed "Final" calibration of the oxygen sensor.
7. Performed full diagnostic evaluation.

## Special Notes:

\* These services were performed at no charge.